INPUT
11,000 VOLTS
50 HERTZ

LIGHTNING
ARRESTOR

750 KVA
2400 VOLTS
3 PHASE 3 WIRE 50 HERTZ

POTENTIAL TRANSFORMER
2400 VOLTS

(Y)
(S) (59 27)

DRAWOUT
AIR BREAKER

(A)
(51) (S) (W)

UNIT SUBSTATION

M.G. SET

500 KVA
DRY TYPE TRANSFORMER
2400 VOLT PRIMARY
240 VOLT SECONDARY
3 PHASE 3 WIRE
50 HERTZ

DRAWOUT
BREAKER

FIELD
CONTROL

(V)
(V) (W) (A)
(PF) (51) A

TO EXISTING
LOADS

REDUCED VOLTAGE STARTER

(MOTOR) 350 HP

(GEN. 250 KW)

250 KW   230 VOLTS
0.8 P.F. 60 Hz 3Φ
SYNCHRONOUS GENERATOR

(V)
(F) (W) (V) (A)

VOLTAGE
REGULATOR

(51) A

DRAWOUT BREAKER

OUTPUT
230 VOLTS
3 PHASE 3 WIRE
60 HERTZ

TITLE: ELECTRICAL EQUIPMENT SCHEMATIC

DESIGNED BY: I.W.
DRAWN BY: L.L.D.
CHECKED BY:
APPROVED BY:

SCALE: NONE
DATE: 12 FEB 1970
DWG NO.: 1-527-70
SH 1 OF 2

INPUT
11,000 VOLTS
3 PHASE 3 WIRE
50 HERTZ

LIGHTNING
ARRESTER

300 KVA
230 VOLTS
3 PHASE 3 WIRE
50 HERTZ

FUSE

V

51 27

V

A

A

W

51

52

TO
EXISTING
LOADS

MOLDED
CASE BREAKER

UNIT SUBSTATION

52

MOLDED CASE
BREAKER
W/SHUNT
TRIP

FIELD
CONTROL

V

A

V

W

P.F.

51

A

M.G. SET

REDUCED VOLTAGE
STARTER

MOTOR 40 HP

GEN.
30 KW

30 KW 120/208 VOLTS
0.8 P.F. 60 HZ 3 ⌀ 4 W
SYNCHRONOUS GENERATOR

VOLTAGE
REGULATOR

V

F

W

Y

A

51

A

MOLDED CASE
BREAKER WITH
SHUNT TRIP COIL

OUTPUT
120/208 VOLTS
3 PHASE 4 WIRE
60 HERTZ

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